

(54) CAPACITY DETERIORATION RATE CALCULATING METHOD FOR STORAGE BATTERY AND DETERIORATION DIAGNOSING DEVICE

- (11) 5-315015 (A) (43) 26.11.1993 (19) JP
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PURPOSE: To enable numerical diagnosis of a deterioration state by measuring continuously the surface temperature of a storage battery, in which a trickle or a float is used, and calculating an aged deterioration rate based on a specific experimental equation, from its average temperature and the elapsed years after installation.

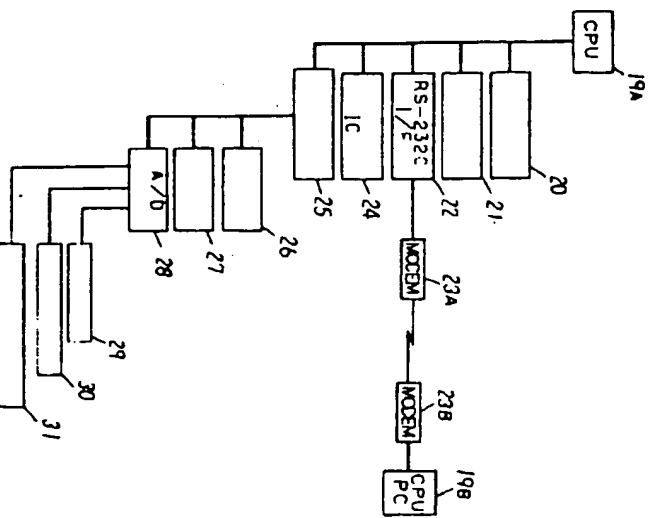
CONSTITUTION: Temperature data 29 of the surface of a storage battery is continuously measured by a CPU 19A to calculate an average temperature, and when a calculation of a capacity deterioration rate (f) is commanded, it is calculated in the following equation by means of the CPU 19A or 19B from the average temperature (t) and the elapsed years Y after the installation of the storage battery. Initial capacity maintaining period $Yb = a - b \times \log t$ and $f = 1 - (c + d \times t^n) \times (Y - Yb)^m$ where (a), (b), (c), (d), (n), and (m) represent experimental constants different from each other depending on standard characteristics of the storage battery, and the application range is $1.0 > f > 0$. Accordingly, dischargeable hours at its life time and the rate of deterioration can be judged by calculation with no discharge test, so that whether or not replacement is needed can be diagnosed.

(54) CONNECTOR FOR WELDING

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PURPOSE: To provide a connector for use in welding capable of connecting terminals to conductors surely and efficiently.

CONSTITUTION: A plurality of conductors are provided on a conductor arrangement base 3, which is connected to a terminal accommodating part 1 for



20: program memory, 21: standard characteristics data memory, 24: calendar IC, 25: input/output interface, 26: operation switch, 27: display device, 28: A/D converter, 30: storage battery voltage data, 31: storage battery discharge current data

